

# EUROPEAN PATENT OFFICE

## Patent Abstracts of Japan

PUBLICATION NUMBER : 63169603  
PUBLICATION DATE : 13-07-88

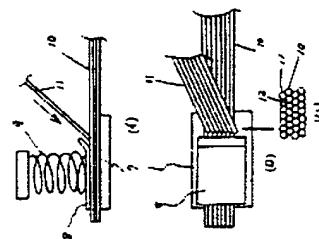
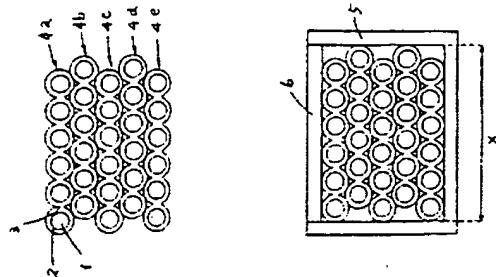
APPLICATION DATE : 07-01-87  
APPLICATION NUMBER : 62000550

APPLICANT : TORAY IND INC;

INVENTOR : TAZAWA HISASHI;

INT.CL. : G02B 6/06

TITLE : IMAGE GUIDE AND ITS  
MANUFACTURE



ABSTRACT : PURPOSE: To facilitate assembly without using any adhesive by forming an image guide of many stages of plastic optical fibers by welding their fiber clad parts so that the clad welded parts of the sheet body shift in position by a half as large as the external diameter of the fibers.

CONSTITUTION: The image guide constituted by laminating many stages of sheet bodies 4a-4e made of optical fiber sheets formed by welding optical fiber core parts and clad parts 2 and 3 mutually. The clad welded parts of those sheet bodies 4a-4e are arrayed shifting in position from clad welded parts of other stages alternately by a half as large the optical fiber radius. This image guide is easily assembled without using any adhesive by interposing an optical fiber sheet 10 which is laminated firstly between a support 7 and an elastic body 9 such as a spring and then inserting an optical fiber sheet 11 to be stacked according to the position of valleys 12 between optical fibers.

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